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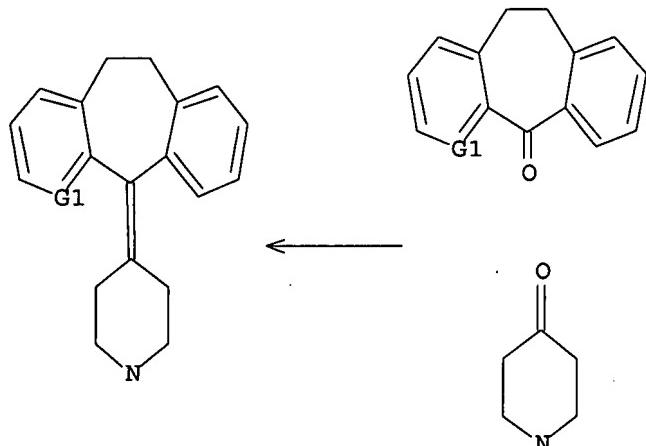
(FILE 'HOME' ENTERED AT 11:43:09 ON 22 MAY 2007)

FILE 'CASREACT' ENTERED AT 11:43:24 ON 22 MAY 2007

L1                   STRUCTURE UPLOADED  
 L2                   0 S L1  
 L3                   3 S L1 FULL

=> d que l3 stat

L1                   STR



G1 C,N

Structure attributes must be viewed using STN Express query preparation.  
 L3                   3 SEA FILE=CASREACT SSS FUL L1 (       5 REACTIONS)

100.0% DONE      2831 VERIFIED      5 HIT RXNS      3 DOCS  
 SEARCH TIME: 00.00.03

=> => d 1-3 bib abs fhit

L3 ANSWER 1 OF 3 CASREACT COPYRIGHT 2007 ACS on STN  
 AN 129:230642 CASREACT

TI Process for the preparation of 10,11-dihydro-5H-dibenzo[a,d]cyclohept-5-enes  
 IN Jackson, William Paul  
 PA Kolabco S. L., Spain  
 SO PCT Int. Appl., 19 pp.  
 CODEN: PIXXD2

DT Patent  
 LA English  
 FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO 9038166	A1	19980903	WO 1998-GB605	19980226
W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GM, GW, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
AU 9863047	A	19980918	AU 1998-63047	19980226
EP 970050	A1	20000112	EP 1998-907067	19980226
EP 970050	B1	20011024		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
AT 207466	T	20011115	AT 1998-907067	19980226
ES 2149737	T3	20011216	ES 1998-907067	19980226
CA 2282480	C	20020423	CA 1998-2282480	19980226
CA 2282480	A1	19980903		
US 6093827	A	20000725	US 1999-383078	19990826

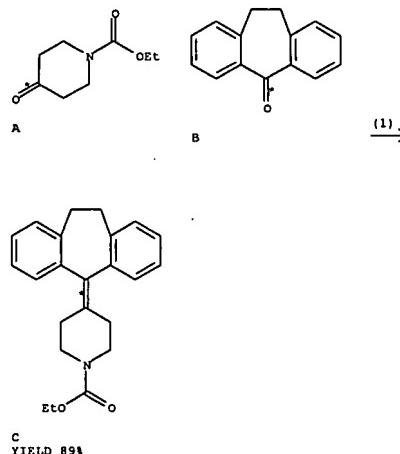
PRAI GB 1997-39926 19970226  
 WO 1998-GB605 19980226  
 OS MARPAT 129:230642  
 GI

\* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT \*

AB The title 10,11-dihydro-5H-dibenzo[a,d]cyclohept-5-enes (e.g. loratadine) [I; I were prepared by reacting a dibenzozuberone II with an aliphatic ketone III in the presence of low valent titanium. The reaction proceeds via an intermediate diol IV which maybe isolated by conducting the reaction at a lower temperature

RX(1) OF 2 A + B ==> C

L3 ANSWER 1 OF 3 CASREACT COPYRIGHT 2007 ACS on STN (Continued)



C YIELD 89%

RX(1) RCT A 29976-53-2, B 1210-35-1  
 RGT D 7440-66-6 Zn, E 7550-45-0 TiCl4  
 PRO C 134204-86-7  
 SOL 109-99-9 THF

RE.CNT 10 THERE ARE 10 CITED REFERENCES AVAILABLE FOR THIS RECORD  
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 2 OF 3 CASREACT COPYRIGHT 2007 ACS on STN  
 AN 128:22821 CASREACT

TI Preparation of ethyl 4-(5,6-dihydro-11H-benzo[5,6]cyclohepta[1,2-b]pyridin-11-ylidene)spiperidine-1-carboxylate

IN Reh, Max; Glawow, Stefan  
 PA Ciba AG, Switz.  
 SO Patentschrift (Switz.), 8 pp.  
 CODEN: SWXAS

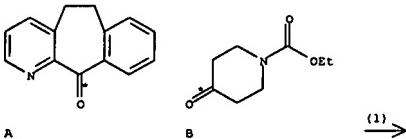
DT Patent  
 LA German  
 FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
CH 680412	A5	19970915	CH 1997-571	19970311
WO 9840376	A1	19980917	WO 1998-C91	19980306
W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GM, GW, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
AU 9860869	A	19980929	AU 1998-60869	19980306
US 2002151714	A1	200201017	US 2000-380835	20000131

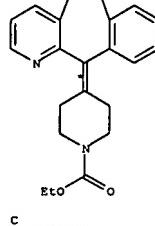
PRAI CH 1997-571 19970311  
 WO 1998-C91 19980306  
 OS MARPAT 128:22821

AB The title compound was prepared in 94% yield by condensation of 5,6-dihydro-11H-benzo[5,6]cyclohepta[1,2-b]pyridin-11-one with 1-(ethoxycarbonyl)-4-piperidone. The 8-chloro- and 8-fluoro- derivs. of the title compound were similarly prepared

RX(1) OF 1 A + B ==> C



L3 ANSWER 2 OF 3 CASREACT COPYRIGHT 2007 ACS on STN (Continued)



C YIELD 68%

RX(1) RCT A 3964-73-6, B 29976-53-2  
 PRO C 79779-58-1  
 SOL 109-99-9 THF  
 NTE CHLORIDES

L3 ANSWER 3 OF 3 CASREACT COPYRIGHT 2007 ACS on STN

AN 127:75517 CASREACT

TI Synthesis, affinity at 5-HT2A, 5-HT2B and 5-HT2C serotonin receptors and structure-activity relationships of a series of cyproheptadine analogs

AU Honrubia, Maria Angeles; Rodriguez, Jesus; Dominguez, Ross; Lozoya, Estrella; Manaut, Franceac; Seijas, Julio A.; Villaverde, Maria Carmen;

Calleja, Jose M.; Cadavid, Maria Isabel et al.

CS Department of Pharmacology, Organic and Physical Chemistry, University of Santiago, Santiago de Compostela, E-15706, Spain

SO Chemical &amp; Pharmaceutical Bulletin (1997), 45(5), 842-848

CODEN: CPBTAL; ISSN: 0009-2363

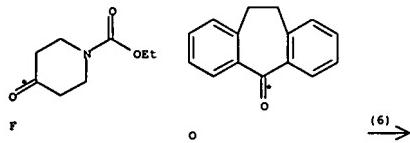
PB Pharmaceutical Society of Japan

DF Journal

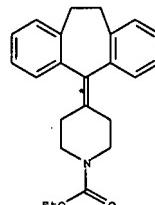
LA English

AB Cyproheptadine (Cyp) is a drug that shows high affinity for type 2 (5-HT<sub>2</sub>) receptors. The authors studied a series of compds. obtained by modification of the tricyclic system of Cyp (dihydrobenzocycloheptadiene, di-Ph, fluorene, and phenylmethyl analogs). Their activities at the rat cerebral cortex 5-HT<sub>2A</sub> receptor were (pK<sub>i</sub>): 8.80 (Cyp), 8.60 (thioxanthene analog), 8.40 (xanthene analog), 8.05 (dihydrodibenzocycloheptadiene analog), 7.87 (di-Ph analog), 6.70 (fluorene analog) and 6.45 (phenylmethyl analog); those at the rat stomach fundus 5-HT<sub>2B</sub> receptor (pA<sub>2</sub>) were: 9.14 (Cyp), 8.49 (thioxanthene analog), 7.58 (xanthene analog), 7.02 (dihydrodibenzocycloheptadiene analog), 6.07 (di-Ph analog), and undetectable (fluorene analog, phenylmethyl analog); and those at the pig choroidal plexus 5-HT<sub>2C</sub> receptor (pK<sub>i</sub>) were: 8.71 (Cyp), 8.68 (thioxanthene analog), 8.58 (xanthene analog), 7.95 (dihydrodibenzocycloheptadiene analog), 7.57 (di-Ph analog), 6.98 (fluorene analog) and 6.63 (phenylmethyl analog). The slopes did not differ significantly from unity. The compds. exhibited the same order of activities at every type of receptor, and the most active mol. presented certain steric (butterfly conformation of the tricyclic system) and electrostatic (proton affinity on the top of the central rings) patterns. It is concluded that the activity of cyproheptadine derivs. at 5-HT<sub>2</sub> receptors is related to these mol. features, which make feasible a common disposition to interact with all three 5-HT<sub>2</sub> subtypes.

RX(6) OF 18 F + O ==&gt; M...



L3 ANSWER 3 OF 3 CASREACT COPYRIGHT 2007 ACS on STN (Continued)

M  
YIELD 44%

RX(6) RCT F 29976-53-2, O 1210-35-1  
 RGT G 7439-93-2 Li, H 7705-07-9 TiCl3  
 PRO M 134204-86-7  
 SOL 110-71-4 (CH<sub>2</sub>OMe)<sub>2</sub>

RE.CNT 32 THERE ARE 32 CITED REFERENCES AVAILABLE FOR THIS RECORD  
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

09/525,894

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CA SUBSCRIBER PRICE	-2.92	-2.92

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